

Message Text

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ACTION EUR-25

INFO OCT-01 ISO-00 SS-20 OC-06 CCO-00 OTPE-00 GSA-02

CIAE-00 PM-07 INR-10 L-03 ACDA-19 NSAE-00 PA-04

RSC-01 PRS-01 SP-03 USIA-15 TRSE-00 SAJ-01 EB-11

SCI-06 NASA-04 DRC-01 /140 W
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R 111715Z JUL 74

FM USMISSION NATO

TO SECSTATE WASHDC 6707

SECDEF WASHDC

INFO DCA WASHDC

DCA EUROPE

CINCEUR

USLOSACLANT

C O N F I D E N T I A L USNATO 3845

E.O. 11652: ADS 31 DEC 75

TAGS: ETEL NATO

SUBJ: SATCOM TAILS EXPANSION

WE HAVE RECEIVED COPY FOLLOWING MESSAGE FROM DG NICSMA ADDRESSED
TO SACLANT AND CINCHAN FOR ACTION, AND REPEAT TEXT FOR YOUR
INFO. REF IDENTIFICATION IS NICSMACOM/74/400, WITH DTG 050830Z
JUL 74.

BEGIN QUOTE:

REF: A. NICSMA/SPED/74/322, 5 JUN 74

B. SACLANT MSG R 211445Z JUN 74

C. SACLANT LETTER C-523/5050 SER: 701, 23 MAY 74

D. CO/NAVCOMSTA LETTER C-103/2300 SER:1240, 13 JUN 74

1. PRELIMINARY PLANNING OF THE SATCOM II SGTS FDM EXPANSION
PERFORMED IN NICSMA AND COORDINATED AT WORKING LEVEL WITH MNCS
HAS INDICATED THAT IN ORDER TO BRING THESE ADDITIONAL CIRCUITS
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(ANNEX A OR REF A REFERS) FROM THE SGTS TO THE USER LOCATION
AN EARLY EXPANSION OF THE SGT TAILS IS REQUIRED.

2. IT IS CONSIDERED THAT SUCH TAIL EXPANSION WILL BE REQUIRED

AT THE SAME LOCATIONS BEFORE THE IVSN AND SATCOM III SYSTEMS CAN BE IMPLEMENTED AND THEREFORE THESE FUTURE NEEDS MUST ALSO BE CONSIDERED.

3. IN PARTICULAR, IT HAS BEEN RECOGNIZED THAT THE TAIL FACILITIES ASSOCIATED WITH THE SGTS L3, L4 AND M6 REQUIRE EXPANSION FOR THE FDM EXPANSION AND THE ULTIMATE SATCOM III REQUIREMENTS AS WELL.

4. WITH REGARDS TO THE TAIL ASSOCIATED WITH THE SGT L3, REF D, WHICH IS AN ENDORSEMENT ON A REQUEST FORWARDED BY SACLANT UNDER REF C, INDICATES THAT AN ADDITIONAL 24 VOICE CHANNELS ARE PRESENTLY AVAILABLE IN THE NORFOLK-NORTHWEST LOS WHICH WOULD SUPPORT NATO NEAR-TERM REQUIREMENTS. IT IS NOTED THAT IN-BAND SIGNALLING CONVERTERS MAY BE REQUIRED TO USE SUCH A SOLUTION ON EVEN AN INTERIM BASIS. ARRANGEMENTS CONCERNING TECHNICAL AND FINANCIAL DETAILS ON THIS MATTER REMAIN TO BE DISCUSSED BETWEEN US AND NATO AUTHORITIES.

5. HOWEVER, NICSMA'S POSITION WITH REGARD TO THE PLANNING OF NICS SUB-SYSTEMS, IS TO MAKE PROVISIONS FOR SUCH TAILS, WHICH WILL CATER FOR THE CAPACITIES OF THE ULTIMATE SATCOM III REQUIREMENTS. IN THIS CONTEXT, FOR EACH OF THE TAILS MENTIONED IN PARAGRAPH 2 ABOVE, THE FOLLOWING SOLUTION IS PROPOSED BY NICSMA:

A. NORFOLK - L3 (SGT)

A NEW MICROWAVE LINK OF 60 CHANNEL CAPACITY TO BE INSTALLED FROM SACLANT BUILDING DIRECTLY TO EITHER L3 SGT, IF THE PATH PERMITS, OR TO NORTHWEST VIA RELAY STATION. THE ESTABLISHMENT OF SUCH A LINK WILL ENABLE SACLANT TO DIRECTLY ACCESS NATO COMMUNICATIONS SYSTEMS. THIS COULD BE A NICS COMMON INFRASTRUCTURE PROJECT OR A US/NATO COST SHARED ARRANGEMENT. THE EXISTING US NAVY LOS WHICH IS PRESENTLY SHARED BY NATO/US TO REMAIN IN USE AS AN ALTERNATIVE TAIL PATH, IN ORDER TO PROVIDE DIVERSE MEDIA TO SACLANT HQS IN KEEPING WITH VITAL CONFIDENTIAL

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CIRCUIT CRITERIA.

B. NORTHWOOD - OAKHANGER, L4 (SGT)

TO PROVIDE ONE MICROWAVE LINK FROM OAKHANGER TO NORTHWOOD WITH A FULL CAPACITY OF 75 VOICE CHANNELS, THE FUNDING OF THIS MICROWAVE LINK MIGHT BE COST SHARED WITH MOD/UK AS FOLLOWS:

(1) MOD/UK AND NATO IDENTIFY NATIONAL AND NATO REQUIREMENTS OVER THIS PATH.

(2) BASED ON THESE REQUIREMENTS, DERIVE A COST SHARING

FORMULA USING 5 TO 10 YEAR AMORTIZATION PERIOD.

(3) NATO'S SHARE BE DIVIDED BETWEEN MBC AND INFRASTRUCTURE ON STANDARD FORMULA BASIS WHICH DESCRIBES CAPITAL INVESTMENT AND OPERATING EXPENDITURE SHARE.

(4) NATO'S SHARE BE PAID TO MOD/UK ON ANNUAL BASIS FOR 5 OR 10 YEARS AS DESCRIBED ON THE AMORTIZATION FORMULA.

C. COMIBERLANT HQS - M6 SGT

THE IVSN SWITCH WILL BE LOCATED IN OEIRAS, COMIBERLANT HQS. THE "CONFIGURATION A" NODE WILL BE INSTALLED IN TX SITE, COINA. IT IS THEREFORE DESIRABLE TO INCREASE THE CAPACITIES OF THE FOLLOWING THREE LEGS, MICROWAVE LINKS:

- (1) COMIBERLANT HQS TO RECEIVER SITE
- (2) COMIBERLANT HQS TO TRANSMITTER SITE
- (3) TRANSMITTER SITE TO RECEIVER SITE

IN ADDITION TO THE ABOVE MICROWAVE LINKS THE CABLE CAPACITY BETWEEN M6 SGT AND RECEIVER SITE MUST BE INCREASED. IT IS SUGGESTED THAT AN APPROPRIATE MIX OF CABLE AND LOS EXPANSION ON EACH OF THOSE ROUTES SHOULD BE UTILIZED TO FULFILL CIRCUIT REQUIREMENTS.

6. IT IS REQUESTED THAT SACLANT AND CINCHAN REVIEW THE PROPOSALS AS OUTLINED IN PARAGRAPH 5 ABOVE AND COORDINATE THE POSITION
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WITH NATIONAL AUTHORITIES CONCERNED WITH THE OBJECTIVE OF ESTABLISHING THE POSSIBLE COMMON INTEREST. BASED ON THE SACLANT AND CINCHAN RESPONSE, NICSMA WILL DEFINE EXACT CAPACITY

REQUIREMENTS FOR EACH PATH WHICH CAN THEN BE USED AS A BASIS FOR COST SHARING PROPOSALS, REQUESTS FOR FUNDS AND IMPLEMENTATION.

7. IN ORDER TO PROCEED WITH THE FINALIZATION AND IMPLEMENTATION OF THESE PROJECTS, IT WOULD BE VERY MUCH APPRECIATED IF YOUR RESPONSE COULD BE MADE AVAILABLE TO NICSMA BY 15 AUGUST 74.
END QUOTERUMSFELD

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